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NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	OCT 02	CA/CAPplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS	3	OCT 19	BEILSTEIN updated with new compounds
NEWS	4	NOV 15	Derwent Indian patent publication number format enhanced
NEWS	5	NOV 19	WPIX enhanced with XML display format
NEWS	6	NOV 30	ICSD reloaded with enhancements
NEWS	7	DEC 04	LINPADOCDB now available on STN
NEWS	8	DEC 14	BEILSTEIN pricing structure to change
NEWS	9	DEC 17	USPATOLD added to additional database clusters
NEWS	10	DEC 17	IMSDRUGCONF removed from database clusters and STN
NEWS	11	DEC 17	DGENE now includes more than 10 million sequences
NEWS	12	DEC 17	TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment
NEWS	13	DEC 17	MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary
NEWS	14	DEC 17	CA/CAPplus enhanced with new custom IPC display formats
NEWS	15	DEC 17	STN Viewer enhanced with full-text patent content from USPATOLD
NEWS	16	JAN 02	STN pricing information for 2008 now available
NEWS	17	JAN 16	CAS patent coverage enhanced to include exemplified prophetic substances
NEWS	18	JAN 28	USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats
NEWS	19	JAN 28	MARPAT searching enhanced
NEWS	20	JAN 28	USGENE now provides USPTO sequence data within 3 days of publication
NEWS	21	JAN 28	TOXCENTER enhanced with reloaded MEDLINE segment
NEWS	22	JAN 28	MEDLINE and LMEDLINE reloaded with enhancements
NEWS	23	FEB 08	STN Express, Version 8.3, now available
NEWS	24	FEB 20	PCI now available as a replacement to DPCI
NEWS	25	FEB 25	IFIREF reloaded with enhancements
NEWS	26	FEB 25	IMSPRODUCT reloaded with enhancements
NEWS	27	FEB 29	WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification
NEWS	28	MAR 31	IFICDB, IFIPAT, and IFIUIDB enhanced with new custom IPC display formats
NEWS	29	MAR 31	CAS REGISTRY enhanced with additional experimental spectra
NEWS	30	MAR 31	CA/CAPplus and CASREACT patent number format for U.S. applications updated
NEWS	31	MAR 31	LPCI now available as a replacement to LDPCI
NEWS	32	MAR 31	EMBASE, EMBAL, and LEMBASE reloaded with enhancements

NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

NEWS HOURS STN Operating Hours Plus Help Desk Availability

NEWS LOGIN      Welcome Banner and News Items  
NEWS IPC8      For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 13:49:16 ON 02 APR 2008

```
=> file casreact
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                               ENTRY      SESSION
FULL ESTIMATED COST          0.42          0.42
```

FILE 'CASREACT' ENTERED AT 13:50:10 ON 02 APR 2008  
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT  
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FILE CONTENT:1840 - 29 Mar 2008 VOL 148 ISS 14

New CAS Information Use Policies, enter HELP USAGETERMS for details.

```
*****
*
*      CASREACT now has more than 13.8 million reactions      *
*
*****
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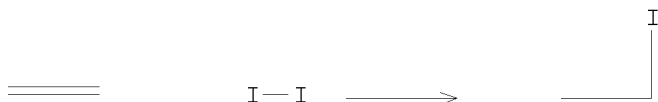
Some CASREACT records are derived from the ZIC/VINITI database (1974-1999) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>  
Uploading C:\Program Files\Stnexp\Queries\10553993-first-rejection.str

L1      STRUCTURE UPLOADED

=> d l1  
L1 HAS NO ANSWERS  
L1      STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1  
SAMPLE SEARCH INITIATED 13:50:52 FILE 'CASREACT'  
SCREENING COMPLETE - 646 REACTIONS TO VERIFY FROM 115 DOCUMENTS

100.0% DONE 646 VERIFIED 307 HIT RXNS 50 DOCS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED VERIFICATIONS: 11396 TO 14444  
PROJECTED ANSWERS: 850 TO 1830

L2 50 SEA SSS SAM L1 ( 307 REACTIONS)

=> s l1 full  
FULL SEARCH INITIATED 13:50:58 FILE 'CASREACT'  
SCREENING COMPLETE - 13218 REACTIONS TO VERIFY FROM 2023 DOCUMENTS  
100.0% DONE 13218 VERIFIED 7572 HIT RXNS 1237 DOCS  
SEARCH TIME: 00.00.05

L3 1237 SEA SSS FUL L1 ( 7572 REACTIONS)

=> file caplus  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
ENTRY SESSION  
FULL ESTIMATED COST 118.42 118.84

FILE 'CAPLUS' ENTERED AT 13:51:08 ON 02 APR 2008  
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FILE COVERS 1907 - 2 Apr 2008 VOL 148 ISS 14  
FILE LAST UPDATED: 1 Apr 2008 (20080401/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s l3  
L4 1237 L3

=> s l3 and free radical  
1237 L3  
1368029 FREE  
328527 RADICAL  
74182 FREE RADICAL

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                (FREE(W)RADICAL)
L5              13 L3 AND FREE RADICAL

=> s 13 and radical
            1237 L3
            328527 RADICAL
L6              98 L3 AND RADICAL

=> s 13 and initiator
            1237 L3
            74166 INITIATOR
L7              4 L3 AND INITIATOR

=> s peroxide? or diazo? or dialkylphenylalkane?
            247525 PEROXIDE?
            112472 DIAZO?
            0 DIALKYLPHENYLALKANE?
L8              359023 PEROXIDE? OR DIAZO? OR DIALKYLPHENYLALKANE?

=> s 18 and 13
            1237 L3
L9              28 L8 AND L3

=> s 19 and 16
L10             4 L9 AND L6

=> s 17 or 110
L11             8 L7 OR L10

=> s 111 not py > 2003
            5547651 PY > 2003
L12             6 L11 NOT PY > 2003

=> d 112 ibib abs hitstr 1-
YOU HAVE REQUESTED DATA FROM 6 ANSWERS - CONTINUE? Y/(N):y

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L12 ANSWER 1 OF 6  CAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:      2001:228100  CAPLUS
DOCUMENT NUMBER:       135:92680
TITLE:                 Iodine atom transfer addition reaction of 1-iodoalkyl
                        phosphonates to alkenes in the presence of
                         $\alpha,\alpha'$ -azoisobutyronitrile (AIBN):
                        mechanistic aspects
AUTHOR(S):             Balczewski, Piotr; Mikolajczyk, Marian
CORPORATE SOURCE:      Centre of Molecular and Macromolecular Studies, Polish
                        Academy of Sciences, Lodz, 90-363, Pol.
SOURCE:                New Journal of Chemistry (2001), 25(4), 659-663
                        CODEN: NJCHE5; ISSN: 1144-0546
PUBLISHER:             Royal Society of Chemistry
DOCUMENT TYPE:         Journal
LANGUAGE:              English
OTHER SOURCE(S):       CASREACT 135:92680

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AB  The mechanistic pathway of the title reaction, which constitutes the 1st
    example of a radical I atom transfer addition reaction of
nonfluorine-containing
    phosphonates, will determine whether 2-iodo-2-methylpropionitrile, 8, can serve
    as a competing I donor with the starting di-Et 1-iodoalkyl phosphonates,
    1a,b. The title reaction proceeds with AIBN as the sole radical
    initiator, not requiring poisonous Sn reagents as co-initiators,
    and gave di-Et 3-iodoalkylphosphonates 3a-e (the final products of the
    propagation step, isolated in 59-95% yield), tetramethylsuccinodinitrile,
    9, di-Et methylphosphonate, 4, and tetra-Et ethylenebisphosphonate 5 (all
    termination products, 0-10% yields). The radical character of this

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reaction was demonstrated using TEMPO as a radical trap. 8 (the intermediate of the initiation step), synthesized independently from AIBN and I, caused complete inhibition of the reaction when added to the reaction mixture, indicating that it does not behave as an I donor in the transfer stage, but rather as an inhibitor.

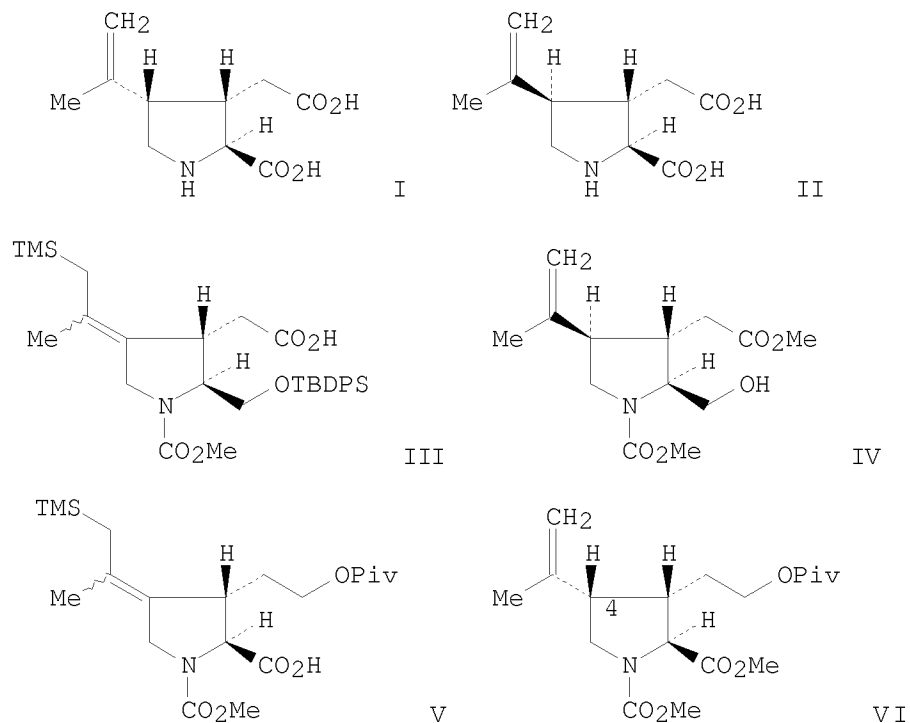
REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:656498 CAPLUS  
DOCUMENT NUMBER: 125:328880  
TITLE: The Synthesis of Phosphonate Ester Containing Fluorinated Vinyl Ethers  
AUTHOR(S): Pedersen, Scot D.; Qiu, Weiming; Qiu, Zai-Ming; Kotov, Stefan V.; Burton, Donald J.  
CORPORATE SOURCE: Department of Chemistry, University of Iowa, Iowa City, IA, 52242, USA  
SOURCE: Journal of Organic Chemistry (1996), 61(23), 8024-8031  
CODEN: JOCEAH; ISSN: 0022-3263  
PUBLISHER: American Chemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 125:328880  
AB Three novel perfluorovinyl ethers containing phosphonate ester groups, di-Et 1,1,2,2,3,3,5,6,6-nonafluoro-4-oxa-5-hexenylphosphonate, (EtO)2P(O)(CF2)3OCF:CF2 (1), di-Et 1,1,2,2,4,5,5-heptafluoro-3-oxa-4-pentenylphosphonate, (EtO)2P(O)(CF2)2OCF:CF2 (2), and di-Et 1,1,2,2,4,5,5,7,8,8-decafluoro-4-trifluoromethyl-3,6-dioxa-7-octenylphosphonate, CF2:CFOCF2CF(CF3)O(CF2)2P(O)(OEt)2 (3), have been synthesized. Perfluoro vinyl ethers 1 and 2 were synthesized from Me 4-trifluoroethenoxy-2,2,3,3,4,4-hexafluorobutanoate and Me 3-trifluoroethenoxy-2,2,3,3-tetrafluoropropanoate, resp., while perfluorovinyl ether 3 was synthesized either from 5-trifluoroethenoxy-4-trifluoromethyl-3-oxa-1,1,2,2,4,5,5-heptafluoropentylsulfonyl fluoride or Me 6-trifluoroethenoxy-5-trifluoromethyl-4-oxa-2,2,3,3,5,6,6-heptafluorohexanoate. The carboxylate esters were converted to the corresponding fluoroalkyl iodides via a free-radical iododecarboxylation. The sulfonyl fluoride was converted to its corresponding fluoroalkyl iodide via iododesulfination. The intermediate iodides were useful precursors for the incorporation of the phosphonic ester groups via a photoreaction with tetra-Et pyrophosphite to produce di-Et fluorophosphonites. The di-Et fluorophosphonites were oxidized to the desired phosphonates, 1, 2, and 3, utilizing hydrogen peroxide as the oxidant. Moderate to good overall yields of perfluorovinyl ethers 1-3 have been achieved.

L12 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1993:255278 CAPLUS  
DOCUMENT NUMBER: 118:255278  
TITLE: Stereocontrolled construction of substituted pyrrolidines based on intramolecular protodesilylation reaction. Enantiospecific synthesis of (-)-kainic acid and (+)-allokainic acid from L-serine  
AUTHOR(S): Hatakeyama, Susumi; Sugawara, Kazutoshi; Takano, Seiichi  
CORPORATE SOURCE: Pharm. Inst., Tohoku Univ., Sendai, 980, Japan  
SOURCE: Journal of the Chemical Society, Chemical Communications (1993), (2), 125-7  
CODEN: JCCCAT; ISSN: 0022-4936  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 118:255278  
GI



AB Novel stereocontrolled enantiospecific syntheses of (-)-kainic acid (I) and (+)-allokainic acid (II) have been achieved starting from L-serine via two modes of C-2 and C-3 side chain-directed intramol. protodesilylations of 4-(trimethylsilylmethyl)ethylidenepyrrolidines. Thus, the BF<sub>3</sub>.Et<sub>2</sub>O-mediated intramol. protodesilylation reaction of silylated pyrrolidine derivative III (TMS = trimethylsilyl, TBDPS = tert-butylidiphenylsilyl) followed by methylation with CH<sub>2</sub>N and HF cleavage gave 3,4-trans-pyrrolidine IV with complete diastereoselectivity. IV was converted to II in 3 steps. On the other hand, the BF<sub>3</sub>.Et<sub>2</sub>O-mediated intramol. protodesilylation reaction of silylated pyrrolidine derivative V under diluted conditions proceeded with opposite diastereoselectivity to give 3,4-cis-pyrrolidine VI and its C-4 epimer in a ratio of 5.3:1. VI was converted to I.

L12 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1990:7316 CAPLUS

DOCUMENT NUMBER: 112:7316

TITLE: Stereoselective exocyclic double-bond formation via vinyl-radical cyclization

AUTHOR(S): Munt, Simon P.; Thomas, Eric J.

CORPORATE SOURCE: Dyson Perrins Lab., Oxford, OX1 3QY, UK

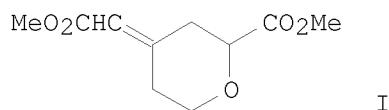
SOURCE: Journal of the Chemical Society, Chemical Communications (1989), (8), 480-2  
CODEN: JCCCAT; ISSN: 0022-4936

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 112:7316

GI



AB A stereoselective route to 2,6-cis-disubstituted 4-methoxycarbonylmethylenetetrahydropyrans, e.g., I, has been developed which uses a vinyl radical cyclization to establish the geometry of the exocyclic double bond, e.g., of MeO2CCH:CRCH2CH2OC(:CH2)CO2Me (R = Br, iodo).

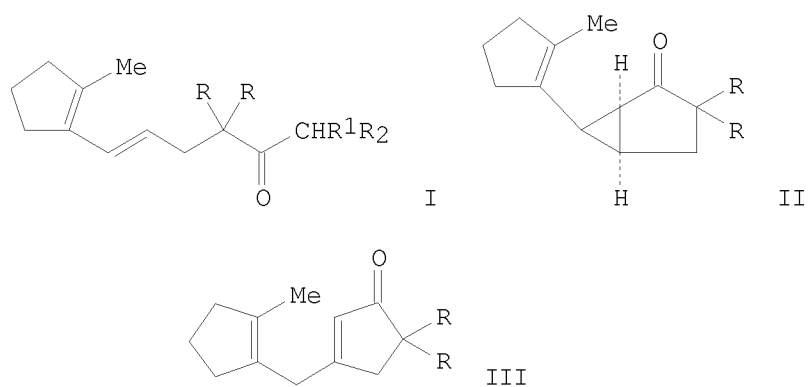
L12 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1985:166291 CAPLUS  
 DOCUMENT NUMBER: 102:166291  
 ORIGINAL REFERENCE NO.: 102:26137a,26140a  
 TITLE: Exchange of bromine and chlorine by iodine in haloaliphatic compounds induced by pentacarbonyliron  
 AUTHOR(S): Amriev, R. A.; Velichko, F. K.; Freidlina, R. Kh.  
 CORPORATE SOURCE: Inst. Elementoorg. Soedin., Moscow, USSR  
 SOURCE: Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1985), (1), 226-8  
 CODEN: IASKA6; ISSN: 0002-3353  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 OTHER SOURCE(S): CASREACT 102:166291

AB Fe(CO)5 initiated the exchange reactions of RX (R = pentyl, Bu, allyl; X = Cl, Br) with I2 or CHI3 to give RI.

L12 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1985:45503 CAPLUS  
 DOCUMENT NUMBER: 102:45503  
 ORIGINAL REFERENCE NO.: 102:7145a,7148a  
 TITLE: Intramolecular Simmons-Smith reaction and other synthetic alternatives to cyclopropanation of dienic diazo ketones. Parallel decomposition pathways of a sterically congested diazo ketone and its vinylcyclopropane under thermal, photolytic, acid-catalyzed, and radical-release conditions  
 AUTHOR(S): Hudlicky, Tomas; Ranu, Brindaban C.; Naqvi, Saiyid M.; Srnak, Ana  
 CORPORATE SOURCE: Dep. Chem., Virginia Polytechnic Inst. and State Univ., Blacksburg, VA, 24061, USA  
 SOURCE: Journal of Organic Chemistry (1985), 50(1), 123-7  
 CODEN: JOCEAH; ISSN: 0022-3263  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 102:45503  
 GI



AB    The decomposition of the diazo dienones I ( $R = H, Me$ ;  $R_1R_2 = :N_2$ ) under thermal, photolytic, and acid catalyzed conditions was examined. I ( $R = Me$ ,  $R_1R_2 = :N_2$ ) was converted into geminal dihalides I ( $R_1, R_2 = Br, iodo$ ), which were decomposed under conditions necessitating radical formation. The products, which were mostly the same, of these expts. included the cyclopropane II and the enone III. Reasons for the parallel outcomes of the expts. were discussed.